ID4Africa

National Registry, Corner Stone of a Secure National Scheme
Civil Register: Who needs it & What for?

**Home Affairs Department**
- Regional planning
- Person Security
- Fraud prevention

**Justice Department**
- Vital Event logging and vital records archiving
- Filiation
- Family law

**Vital Statistics Department**
- National Vital Statistics
- Demographic trends

**Finance Department**
- Statistics & demographic provisions
- State needs evolution
- Knowledge of population (active population, military conscription...)
- Taxes

**Health Department**
- Reliability of person’s status (birth, death)
Modernizing Civil Registration

A Trend since 2010

- Decade 2010-2020 has been declared by UNO, the Civil Registration Decade
- Since 2005, ICAO is requesting more reliable travel identity documents
- Identity documents cannot be reliable if breeder’s documents are dubious or fraudulent

Why GEMALTO?

- As Worldwide Leader in Security and Identity documents, Gemalto is an operational partner of governments in the Security worldwide effort
- Gemalto has a dedicated division to help Government organizations in their modernization efforts to bring new eServices to their citizens

The needs of the modernization

- Get Reliable sources to build a Reference Master Base
- Know population and demographic evolutions
- Reliable identity documents production
Coesys, a complete solutions portfolio

Enrollment

- National Registry
- Enrolment

Issuance & document mgnt

- Issuance
- eDoc & PIN Delivery

eVerification

- Terminal Management System
- Verification Terminal

eGovernment

- Identity Provider
- Desktop & Mobile eGov
Some key figures

**Identity document in Polycarbonate**

- More than 90 millions of polycarbonate documents produced in the last 10 years

**The electronic passport**

- 30% market share of the electronic passport market

**Our Solutions**

- More than 100 millions of people enrolled
- More than 20 millions of personalized document per year

- 50% of the EU countries are using Gemalto technologies
Contributing to more than 80 government programs

Border Management
- Ghana
- Morocco
- Norway
- Croatia

ePassports
- Algeria
- Belgium
- Burundi
- Cap Verde
- Czech Republic
- Denmark
- Gabon
- Estonia
- France
- Hong Kong
- Ivory Coast
- Korea
- Latvia
- Malta
- Moldova
- Morocco
- Norway
- Oman
- Poland
- Portugal
- Taiwan
- Turkey
- Singapore
- Slovenia
- Sweden
- USA

Visa Management
- Ghana
- Argentina
- Over 10 projects (OEM)

eDriving License
- Australia eDL (Queensland)
- El Salvador (eDL)
- France (eDL)
- Greece (DL)
- India (eDL)
- Ireland (eDL)
- Luxembourg (DL)
- Morocco (eDL)
- Mexico (eDL)
- Norway (DL)
- United Kingdom (DL)

eHealthcare:
- Algeria
- Antigua
- Azerbaijan
- Bulgaria
- Canada (Sunrise)
- China
- France
- Gabon
- Germany
- Italy
- Mexico
- Puerto Rico
- Slovenia
- Spain
- Sweden (doctors)
- Turkmenistan
- United Kingdom (doctors)

ID & Resident Permits
- Bahrain (eID)
- Belgium (eID/eRP)
- Czech Republic (ID/eID)
- Denmark (eRP)
- Finland (eID, RP, Mobile ID)
- France (eRP)
- Greece (eRP)
- India (Mobile ID)
- Ireland (eRP)
- Hong Kong (eID)
- Korea (Mobile ID)
- Kuwait (eID)
- Lithuania (eID)
- Moldova (Mobile ID)
- Mongolia (eID)
- Oman (eID/eRP/Mobile ID)
- Portugal (eID/eRP)
- Qatar (eID/eRP)
- Republic of South Africa (eID)
- Saudi Arabia (eID)
- Singapore (ID)
- Spain (readers)
- Sweden (eID/eRP)
- Taiwan (eRP)
- Tunisia (ID)
- UAE (eID)
- UK (eRP)
- Benin (Voter Registration)
- Burkina Faso (Voter Reg.)
- Gabon (Voter Registration)
- USA: DoD cards (military)
- Tachographs in 15 countries

Over 80 e-Identity projects, including
- over 25 ePassport
- over 30 National eID/eRP

Over 60 turnkey solutions / managed services
- 16 Enrolment
- 38 Issuance systems
- 10 e-Gov
- 17 eHealth
- 4 Border Management

Over 25 ePassport
- 7 eDriving License
- 10 e-Gov
- 17 eHealth

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### Barriers to modernizing Civil Registration

<table>
<thead>
<tr>
<th>Barriers</th>
<th>How to remove barriers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lack of proximity</strong></td>
<td>• Allow registration for all</td>
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<tr>
<td></td>
<td>• Multiply occasions to meet citizens, collect data, and to perform validation</td>
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<tr>
<td><strong>Sources Reliability</strong></td>
<td>• Build a transition Database</td>
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<td></td>
<td>• Verification process before adding in Master Base</td>
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<tr>
<td><strong>Few or No unicity criteria</strong></td>
<td>• Use biometry as a mean of unambiguous identification</td>
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<tr>
<td><strong>No network to decentralize</strong></td>
<td>• Periodic secured refresh on magnetic support (weekly or daily)</td>
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<td><strong>No secured buildings</strong></td>
<td>• Build a secure vault with agents’ access control</td>
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<tr>
<td><strong>No shared infrastructure</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Training of qualified personnel</strong></td>
<td>• Train personnel and ensure nominal tracking of actions for any access and update</td>
</tr>
</tbody>
</table>
Modernizing Civil Register relies on several sub programs that need to be implemented in parallel and require coordination.

Platforms and Equipment

Network & Communication

Assistance & Program Management

Training & Knowledge Transfer

Operation

Platforms and Equipment

- Population communication

Training & Knowledge Transfer

- Training on new rules and procedures, applications and equipments
- Training on new registration procedures

Network & Communication

- Local Civil Registrations Centers
- Intermediate Civil Register Centers
- Central Plateforms, Certificate Authority, National Center
- Territorial enrolment & validation network
- Interministerial network & Access control

Assistance & Program Management

- Work groups
- Legal framework
- Legal Digital trust framework

Operation

- National Data Center Operations

- Rollout
- Census

- Launch
Data Accuracy Validation cycle

1. Collect of existing sources

2. Anomaly Checks

3. Enrolment campaign or Enrolment for a Civil Status change

4. Reconciliation, Request validation and Update in Master Base

Local Civil Register Center

National Secured Data Center

TRANSITIONAL BASE

CIVIL REGISTER MASTER BASE
Sharing Civil Register between State Departments

Civil Register shall be designed as a Shared Server Resource
Civil Register: The Identification chain Cornerstone

Secured Civil Register = Root for all identifiers

CIVIL REGISTER or Population Register

Official Existence

An ID document is secured when all data cannot be forged and are totally compliant with Civil Register data.

Primary Document = Proof of Identity

Secured Identification Document

Secondary Document

Secured Identification Document

Civil Register or Population Register

Verification

Official Existence
Program Key Success Factors

准确性 - 安全性 - 近距离 - 可用性 - 分享

- **Global Vision** of Civil Registration modernization
- **Governance** strategy
- **Nationwide Centers** to reach everyone
- **Collect and control** sources. Organize **progressive migration**
- **Train officers** – Gain support of traditional local authorities (mayors, village chiefs)
- **Integrate Civil Register** in the State Information system to secure Identity documents
THE MODERNIZATION OF THE CIVIL REGISTER

USE CASES

- OMAN
- GABON
The civil register of OMAN

The objective

- Build a reliable population database
- Increase the knowledge of the demographic evolution
- Ease the economic and social governance
- Optimize the cost and manpower
- Share the secured population database to other governmental organization
- Build the bases of the future online e-Governmental services

The project

- Contract signature in 2002
- 1st opening of civil registration center end of 2003 and issuance of the eID card
- Civil certificates (birth, death …) and resident permit issuance in 2004

12 Civil registration centers in 2004

UN Award for the modernization of public services in 2009

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The civil register of OMAN

Few details

- All databases migrated in the population database
- Biometry used for citizens authentication
- Unique identifier number
- Specific web portal deployed for new e-Governmental services

Civil registration center and issuance of the secured document

- Birth / Death registration
- Marriage / Divorce registration
- Birth and death certificates issuance
- eID card issuance
- Resident permit issuance
The Civil registration in Gabon

The Civil registration before the modernization

- Civil registers were falling into disrepair
- The paper handling is threatened by physical deterioration (weather, insects)
- No advanced technological infrastructure for data processing,
- No telecommunications infrastructure to date for the transfer of data on the whole territory

A project management by steps

Step 1:
- Voter registration done in 2013 (election in Dec 2013)

Step 2:
- Legal Framework
- Civil registration specification

Step 3:
- System integration
The Civil registration in Gabon

- 1 Primary site in Libreville hosting the main civil register
- 9 Regional sites used for civil registration request, all equipped with a duplicated civil register database
- Town hall used to process citizen request:
  - Civil registration (birth, death, marriage, divorce, etc)
  - Issuance of certificates
  - eID card request
  - eP request
Civil registration software

*Screen shot*
Civil registration software

Screen shot
Conclusion
Civil Register is **THE reference**

- Civil Registration can
  - Help citizens to get **social benefits & civil rights**
  - Help tracking **population size and trends & facilitates democratic governance**
  - Help **securing the Social contract between Individual & State**

**Civil Register as Master Population Base must be RELIABLE**
Thank You !